

2011-02-07 Monday Morning Notes

Monday, February 07, 2011
9:14 AM

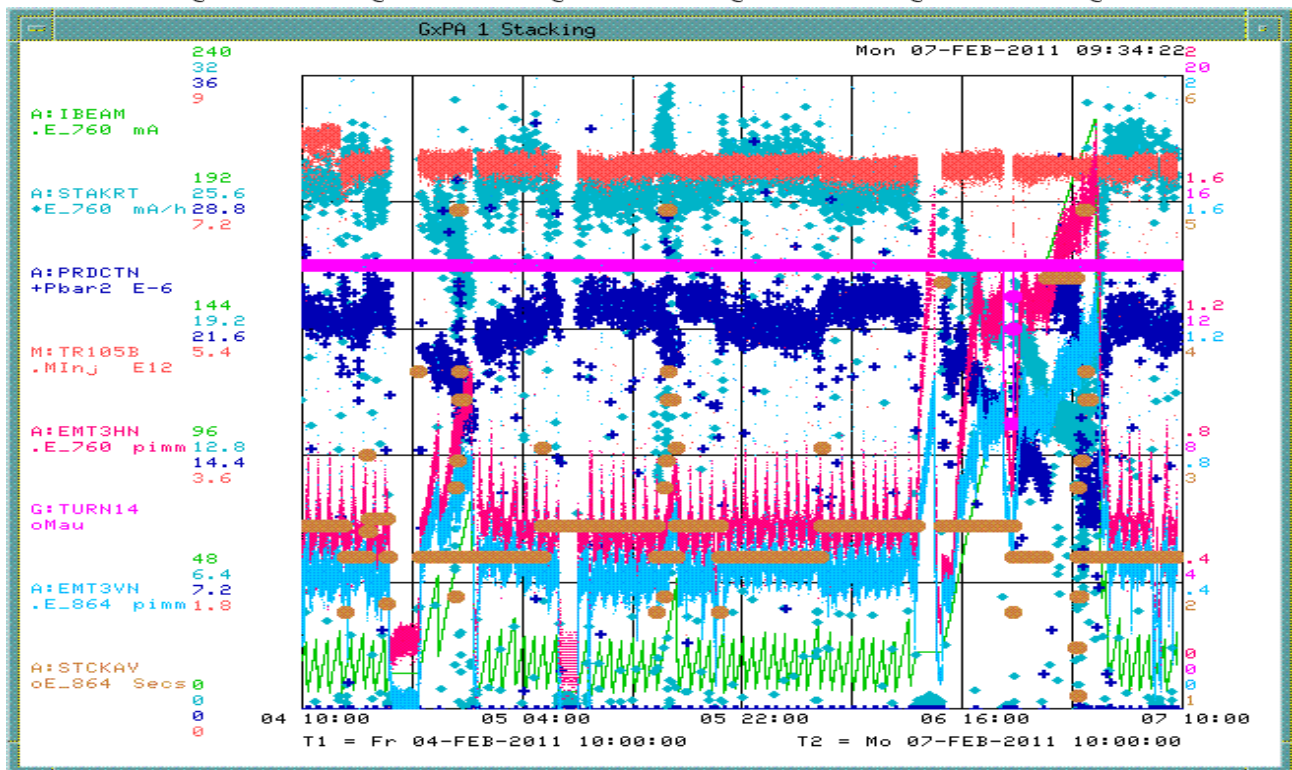
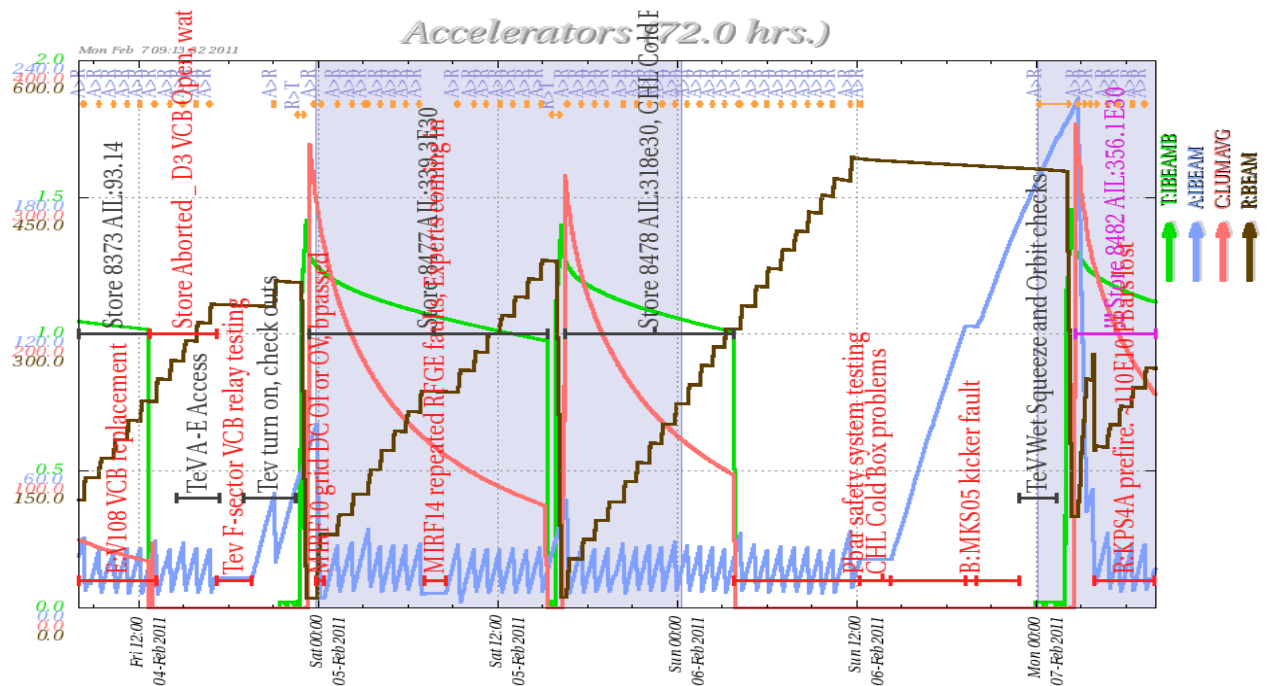
Stacking and Transfers

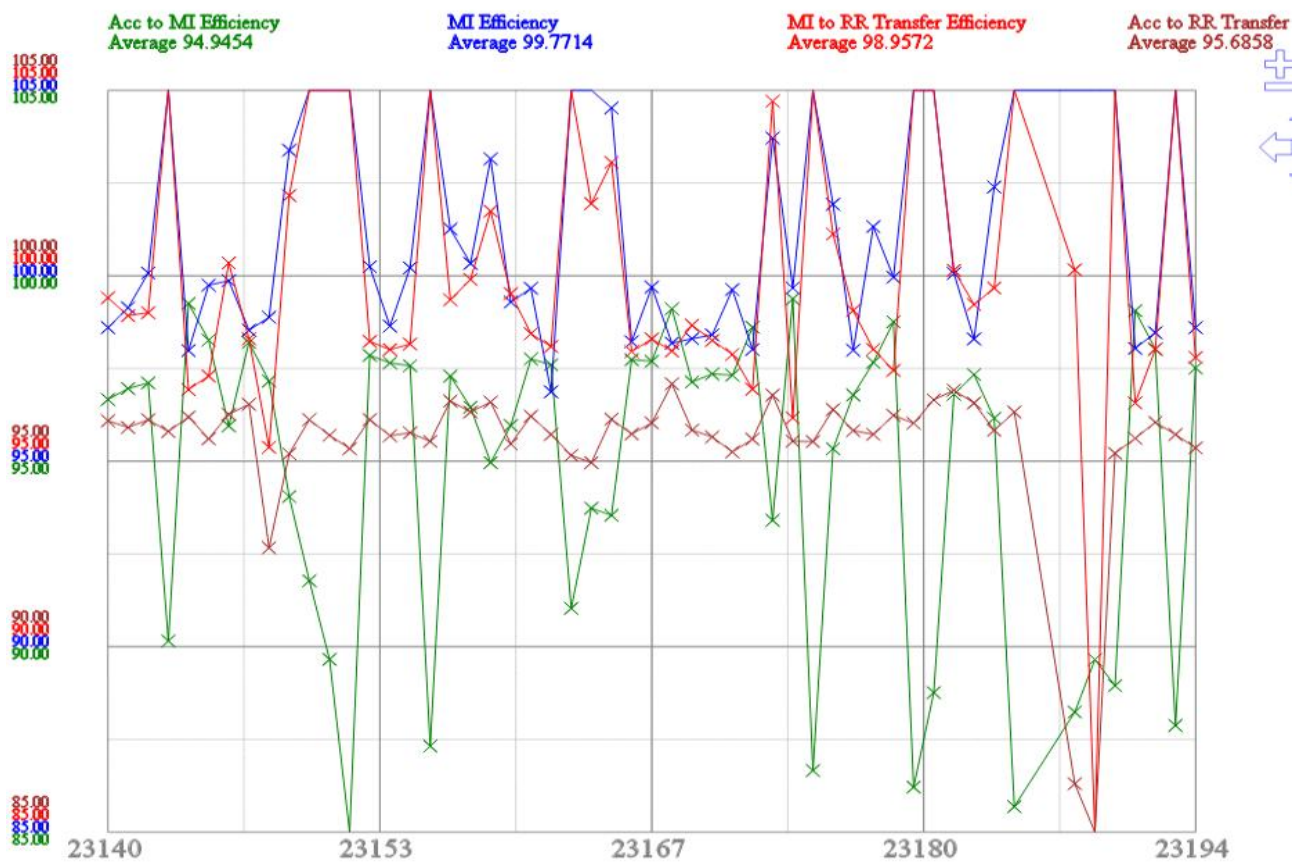
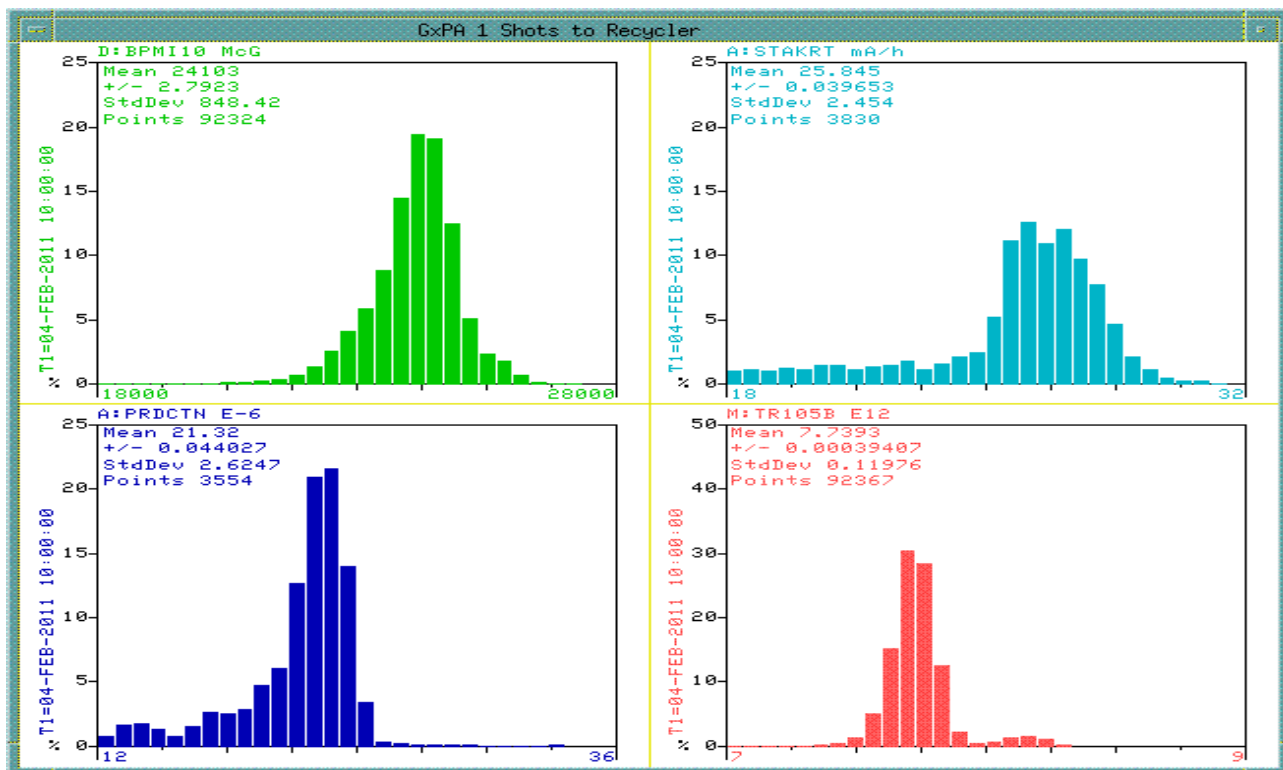
- Stacked 25.8mA/hr with a production of 21.32 pbars/Mp with 7.74 Tp on target.
- Unstacked 1522E10 (507E10/day) in 171 transfers (57/day) in 54 sets (18/day) with an overall average efficiency of 87.2%
 - Transfer 23188 was from a 223E10 stack

Numbers

- Stacking
 - Pbars stacked: 1514.93 E10
 - Time stacking: 64.96 Hr
 - Average stacking rate: 23.32 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 97565
 - Number of pulses with beam: 93090
 - Fraction of up pulses was: 95.41%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 61.98 Hr
 - Possible average stacking rate: 24.44 E10/Hr
 - Could have stacked: 1587.76 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1499.90 E10
 - Number of transfers : 168
 - Number of transfer sets: 54
 - Average Number of transfer per set: 3.11
 - Time taken to shoot including reverse proton tuneup: 00.59 Hr
 - Transfer efficiency: 100.05%
- Other Info
 - Average POT : 7.74 E12
 - Average production: 21.03 pbars/E6 protons

Plots





Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3 Transfer Time	Column 21 Number _20_A-1 BEAMB sampled on \$91 (A-BEA M7), E10	Column 22 Number _21_A-1 BEAMB sampled on \$94 (A-BEA M9), E10	Unstacked (mA)	Column 23 Number _22_R- BEAMS (R-BEA ME0(0)) pre after E10	Column 24 Number _23_R- BEAM (R-BEA ME0(1)) post after, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number _4_Acc Horizont al Emittanc e	Column 6 Number _5_Acc Vertical Emittanc e	Column 8 Number _7_Acc Longitu dinal Emittanc e	
Totals =>				1522.00			1326.58	87.16%	93.67%	96.40%	90.30%	171	54	5.742	4.3077	1.9394	
Daily Average =>				507.33			442.19					57	18				
23194	Monday, February 07, 2011	8:32	26.10	6.81	22.02	262.49	283.24	21.06	95.61%	97.48%	96.62%	94.19%	3	1	6.074	4.599	1.965
23193	Monday, February 07, 2011	7:15	28.11	7.56	23.29	241.28	263.22	22.31	95.78%	85.04%	94.67%	80.51%	3	1	5.954	4.416	1.957
23192	Monday, February 07, 2011	6:23	26.41	7.05	22.18	220.75	241.70	21.30	96.05%	97.55%	96.70%	94.33%	3	1	5.779	4.349	1.951
23191	Monday, February 07, 2011	5:33	26.09	7.02	21.86	200.65	221.18	20.90	95.59%	98.37%	97.09%	95.51%	3	1	5.883	4.149	1.953
23190	Monday, February 07, 2011	4:48	32.82	8.39	27.22	176.19	201.59	25.89	95.10%	92.22%	96.82%	89.29%	3	1	6.195	4.61	1.926
23189	Monday, February 07, 2011	3:46	52.13	10.54	46.70	249.58	178.60	-67.28	-144.07%	85.35%	96.86%	82.67%	4	1	6.936	5.211	1.908
23188	Monday, February 07, 2011	2:50	223.28	41.70	189.72	100.27	252.32	163.40	86.11%	88.43%	93.01%	82.25%	9	1	13.457	9.646	1.422
23185	Sunday, February 06, 2011	11:34	33.73	8.39	28.02	468.18	494.22	26.92	96.08%	80.30%	97.00%	77.89%	3	1	5.782	4.603	1.916
23184	Sunday, February 06, 2011	10:24	25.23	6.46	21.49	451.22	471.27	20.61	95.91%	96.38%	97.44%	93.91%	3	1	5.645	4.176	1.965
23183	Sunday, February 06, 2011	9:34	25.50	6.48	21.68	432.72	453.01	20.93	96.53%	97.58%	96.29%	93.96%	3	1	5.579	4.323	1.955
23182	Sunday, February 06, 2011	8:43	26.83	6.29	23.22	412.35	434.31	22.51	96.91%	97.44%	97.71%	95.21%	3	1	5.661	4.257	1.942
23181	Sunday, February 06, 2011	7:50	26.86	6.80	22.80	392.21	413.66	21.97	96.37%	92.39%	96.58%	89.23%	3	1	5.754	4.447	1.965
23180	Sunday, February 06, 2011	6:56	27.43	6.95	23.17	371.42	393.35	22.27	96.10%	90.34%	96.63%	87.30%	3	1	5.347	4.292	1.959
23179	Sunday, February 06, 2011	6:00	25.36	6.32	21.71	351.93	372.52	20.88	96.18%	98.72%	99.23%	97.96%	3	1	5.524	3.995	1.954
23178	Sunday, February 06, 2011	5:10	27.94	7.15	23.51	330.62	352.85	22.54	95.87%	97.78%	98.71%	96.52%	3	1	5.168	4.129	1.969
23177	Sunday, February 06, 2011	4:15	32.64	7.62	27.65	305.45	331.46	26.52	95.90%	97.58%	95.35%	93.04%	3	1	5.595	4.003	1.913
23176	Sunday, February 06, 2011	3:09	25.72	6.90	21.59	285.90	306.35	20.78	96.28%	95.45%	96.81%	92.40%	3	1	5.568	4.046	1.996
23175	Sunday, February 06, 2011	2:21	26.35	6.94	22.20	265.57	286.55	21.25	95.69%	91.29%	97.00%	88.55%	3	1	5.72	4.177	1.981
23174	Sunday, February 06, 2011	1:32	27.04	6.93	22.82	244.44	266.06	21.88	95.85%	98.93%	98.44%	97.38%	3	1	5.696	4.078	1.962
23173	Sunday, February 06, 2011	0:41	27.35	7.35	22.75	223.36	245.00	21.99	96.68%	95.83%	96.86%	92.82%	3	1	5.757	4.319	1.987
23172	Saturday, February 05, 2011	23:51	28.91	7.58	24.07	201.08	223.79	23.02	95.63%	98.82%	97.43%	96.28%	3	1	5.694	4.249	1.973
23171	Saturday, February 05, 2011	22:57	26.74	7.36	22.21	180.44	201.38	21.15	95.23%	97.55%	97.02%	94.65%	3	1	5.907	4.378	1.985
23170	Saturday, February 05, 2011	22:07	27.33	7.29	22.74	159.11	180.66	21.75	95.65%	97.25%	95.80%	93.17%	3	1	5.813	4.272	1.967
23169	Saturday, February 05, 2011	21:16	26.34	7.25	21.81	138.62	159.36	20.92	95.94%	97.31%	96.02%	93.44%	3	1	5.752	4.178	1.974
23168	Saturday, February 05, 2011	20:24	28.11	5.91	24.07	115.82	138.91	23.32	96.87%	98.85%	97.16%	96.05%	3	1	4.938	3.727	1.925
23167	Saturday, February 05, 2011	19:21	25.82	6.81	21.75	95.57	116.16	20.87	95.94%	97.66%	97.56%	95.27%	3	1	5.299	4.055	1.979
23166	Saturday, February 05, 2011	18:28	25.63	6.69	21.63	75.19	95.74	20.70	95.71%	97.39%	96.59%	94.06%	3	1	5.53	3.99	1.97
23165	Saturday, February 05, 2011	17:37	26.75	6.70	22.71	53.67	75.32	21.83	96.11%	94.39%	97.48%	92.00%	3	1	5.55	4.131	1.983
23164	Saturday, February 05, 2011	16:38	47.57	6.18	44.92	11.92	53.93	42.57	94.76%	93.00%	97.47%	90.65%	4	1	5.601	4.113	1.884
23163	Saturday, February 05, 2011	14:52	27.02	6.84	22.93	360.14	381.58	21.84	95.22%	91.42%	96.62%	88.33%	3	1	5.244	4.041	1.962
23162	Saturday, February 05, 2011	13:57	25.69	6.37	22.02	340.52	361.25	21.08	95.74%	97.46%	94.47%	92.07%	3	1	5.212	4.045	1.967
23161	Saturday, February 05, 2011	13:04	26.59	6.58	22.69	320.09	341.51	21.77	95.97%	97.27%	97.31%	94.65%	3	1	5.487	3.937	1.925
23160	Saturday, February 05, 2011	12:09	25.75	6.23	22.18	300.17	321.04	21.12	95.22%	96.39%	95.60%	92.15%	3	1	5.468	4.035	1.961
23159	Saturday, February 05, 2011	11:16	25.31	6.07	21.90	280.25	300.97	21.13	96.48%	94.56%	98.09%	92.76%	3	1	5.255	3.913	1.951
23158	Saturday, February 05, 2011	10:25	25.46	6.43	21.72	260.29	280.90	20.93	96.34%	97.02%	96.79%	93.91%	3	1	5.279	4.126	1.971
23157	Saturday, February 05, 2011	9:22	27.45	2.47	25.34	236.63	260.88	24.44	96.45%	97.93%	99.19%	97.14%	3	1	3.862	2.217	1.863
23156	Saturday, February 05, 2011	6:49	28.00	5.93	24.44	214.81	237.91	23.32	95.40%	87.60%	96.76%	84.77%	3	1	5.269	3.917	1.933
23155	Saturday, February 05, 2011	5:52	27.54	7.31	22.98	193.50	215.27	22.02	95.83%	97.97%	97.84%	95.85%	3	1	5.504	4.299	1.978
23154	Saturday, February 05, 2011	5:01	27.45	7.51	22.75	172.31	193.85	21.78	95.75%	98.19%	96.73%	94.98%	3	1	5.593	4.345	1.982
23153	Saturday, February 05, 2011	4:08	27.12	6.76	22.78	150.95	172.63	21.90	96.12%	97.99%	97.49%	95.53%	3	1	5.494	4.175	1.953
23152	Saturday, February 05, 2011	3:22	34.46	9.01	28.15	124.76	151.32	26.78	95.12%	71.96%	96.43%	69.39%	3	1	5.836	4.694	1.956
23151	Saturday, February 05, 2011	2:15	28.53	7.32	23.97	102.32	125.07	22.95	95.74%	85.94%	97.33%	83.64%	3	1	5.524	4.244	1.967
23150	Saturday, February 05, 2011	1:18	27.47	6.74	23.27	80.40	102.52	22.34	96.02%	92.13%	97.49%	89.81%	3	1	5.856	4.88	1.965
23149	Friday, February 04, 2011	23:55	30.47	4.10	76.35	10.36	80.87	72.05	94.36%	96.25%	96.48%	92.86%	5	1	5.321	3.413	1.743
23148	Friday, February 04, 2011	21:05	50.30	20.05	31.46	330.41	359.05	29.12	92.55%	97.09%	95.80%	93.01%	2	1	7.662	5.971	1.831
23147	Friday, February 04, 2011	16:44	25.97	6.58	22.02	312.33	333.30	21.25	96.51%	98.20%	96.21%	94.48%	3	1	5.449	4.193	1.957
23146	Friday, February 04, 2011	15:50	25.87	6.80	21.74	292.61	313.18	20.91	96.20%	96.14%	95.43%	91.75%	3	1	5.386	4.312	1.967
23145	Friday, February 04, 2011	15:00	28.62	7.55	23.80	270.76	293.30	22.76	95.60%	98.21%	97.92%	96.16%	3	1	5.533	4.31	1.963
23144	Friday, February 04, 2011	14:05	26.01	6.76	21.99	250.61	271.49	21.12	96.03%	98.87%	97.08%	95.98%	3	1	5.592	4.213	1.986
23143	Friday, February 04, 2011	13:08	29.72	5.83	26.34	226.32	251.21	25.21	95.72%	84.81%	96.94%	82.21%	3	1	5.368	4.033	1.926
23142	Friday, February 04, 2011	12:06	25.93	5.85	22.86	205.16	226.86	21.98	96.16%	97.60%	97.40%	95.06%	3	1	5.175	3.866	1.945
23141	Friday, February 04, 2011	11:13	26.16	6.15	22.70	183.98	205.55	21.75	95.81%	97.04%	96.58%	93.72%	3	1	5.443	4.111	1.962
23140	Friday, February 04, 2011	10:20	25.30	6.23	21.79	163.68	184.35	20.95	96.11%	96.82%	95.74%	92.70%	3	1	5.67	4.223	1.974
23139	Friday, February 04, 2011	9:22	25.98	6.37	22.35	142.86	164.01	21.41	95.81%	98.76%	96.51%	95.31%	3	1	5.527	4.186	1.955